

EASTERN UNIVERSITY, SRI LANKA

SECOND YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2010/2011

ACH 2101: PROPERTIES OF SOIL

Time: 2 hour

Answer all questions



- 1) a. Explain the sources that are responsible for the development acid soils.  
b. How montmorillonitic clay differs from kaolinitic clay?
- 2) a. Classify the salt affected soils based on their chemical characteristics.  
b. State the importance of buffering action in soil and explain the factors that influencing the buffer capacity.
- 3) a. What do you understand by “Cation Exchange” in soils and explain it’s importance in plant growth.  
b. Explain the factors influencing soil the colour.
- 4) Write short notes on the followings
  - a) Gas Exchange mechanisms in soils.
  - b) Atterburgs limits and their importance.
  - c) Organic Soil Colloids.